

In the Claims:

Please cancel claims 19, 29, 37 and 38 without prejudice or dedication.

Please amend the claims as indicated below.

1. (Canceled)
2. (Canceled)
3. (Currently Amended) In at least one computer system operatively coupled to a network and capable of executing a communication process for sending and receiving electronic mail documents, a method performed by the computer system comprising:  
  
    (A) — creating, by the computer system, a shadow document from an original ~~document,~~ wherein the original document is an electronic mail message within a conversation thread of electronic mail messages, parsing the original electronic mail messagedocument for selected logistical data, ~~comprising any of sender, receiver, original size, subject, or carbon copies of the original document,~~ and storing the logistical data in the shadow document;  
  
    (B) — identifying, by the computer system, within the conversation thread of electronic mail messages, -a parent electronic mail messagedocument and a child electronic mail messagedocument of the original electronic mail messagedocument, wherein the original electronic mail messagedocument is a reply to the parent electronic mail messagedocument of the

~~original document~~ and wherein the child electronic mail message document of the original document is a reply to the original electronic mail message document; and  
storing, by the computer system, references thereto the parent electronic mail message and the child electronic mail message in the shadow document; and

(C) ~~storing the shadow document in a computer usable memory, determining and~~

visually rendering, by the computer system, a complete tree representing the conversation thread of electronic mail messages responsive at least in part to the shadow document, wherein the visual rendering of the complete tree representing the conversation thread of electronic mail messages graphically represents the original electronic mail message document as a child of the identified parent electronic mail message document and as a parent of the identified child electronic mail message document;

detecting, by the computer system, deletion and wherein after deleting of the original electronic mail message; and

modifying document, by the computer system, the visual rendering of the complete tree representing the conversation thread of electronic mail messages in response to detecting the deletion of the original electronic mail message to include is preserved except with a modified graphical representation of the original electronic mail message document, wherein the modified graphical representation of the original electronic mail message document within the visual rendering of the complete tree representing the conversation thread of electronic mail messages after deleting of the original document visually indicating indicates that the original document has been deleted.

4. (Currently Amended) The method of claim 3 wherein the creating of the shadow document(A) further comprises:

(A1)—filtering the original electronic mail messagedocument for selected content.

5. (Currently Amended) The method of claim 3 wherein the shadow document further comprises selected data from the content of the original electronic mail messagedocument.

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Currently amended) In at least one computer system operatively coupled to a network and capable of executing a communication process for sending and receiving electronic mail documents, a method performed by the computer system comprising:

(A)—creating, by the computer system, a shadow document from an original ~~document~~, wherein the original ~~document~~ is an electronic mail message within a conversation thread of electronic mail messages;

(B)—identifying, by the computer system, within the conversation thread of electronic mail messages, a parent electronic mail messagedocument and a child electronic mail message document of the original electronic mail messagedocument, wherein the original electronic mail messagedocument is a reply to the parent electronic mail messagedocument of the original

~~document~~ and wherein the child electronic mail message~~document of the original~~ document is a reply to the original electronic mail message~~document~~, and;

\_\_\_\_\_storing, by the computer system, references to the parent electronic mail message and the child electronic mail message~~therein~~ in the shadow document;

(C) ~~storing the shadow document in a computer usable memory, determining and~~ \_\_\_\_\_visually rendering, by the computer system, a complete tree representing the conversation thread of electronic mail messages responsive at least in part to the shadow document, wherein the visual rendering of the complete tree representing the conversation thread of electronic mail messages graphically represents the original electronic mail message~~document~~ as a child of the ~~identified parent~~ electronic mail message~~document~~ and as a parent of the ~~identified child~~ electronic mail message~~document~~;

\_\_\_\_\_detecting, by the computer system, deletion ~~and wherein after deleting~~ of the original electronic mail message;

\_\_\_\_\_modifying, by the computer system, ~~document~~ the visual rendering of the complete tree representing the conversation thread of electronic mail messages in response to detecting the deletion of the original electronic mail message ~~to include is preserved except with~~ a modified graphical representation of the original electronic mail message~~document~~, ~~wherein the modified graphical representation of the original~~ electronic mail message ~~document~~ within the visual rendering of the complete tree representing the conversation thread of electronic mail messages ~~after deleting of the original document~~ visually indicating~~indicates~~ that the original electronic mail message~~document~~ has been deleted; and

\_\_\_\_\_wherein the shadow document further comprises references to original content and original attachments of the original electronic mail message.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently Amended) The method of claim 3 further comprising:

wherein the tree representing the conversation thread of electronic mail messages presents graphical representations of a plurality of electronic mail messages~~documents~~ in a manner which indicates relationships among the electronic mail messages~~documents~~.

14. (Currently Amended) The method of claim 13 wherein at least one of the plurality of presented electronic mail messages~~documents~~ is the original electronic mail message~~document~~.

15. (Currently Amended) The method of claim 13 wherein at least one of the plurality of presented electronic mail messages~~documents~~ is the shadow document.

16. (Currently Amended) The method of claim 3 further comprising:

(E)—resolving the references in the shadow document to the parent electronic mail message~~document~~ and the child electronic mail message~~document~~; and

(F)—maintaining in memory data identifying a plurality of shadow documents and any parent and child electronic mail messages~~documents~~ thereof.

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Currently amended) At least one computer system coupled to a network and including a computer readable memory having program code stored thereon for executing a communication process for sending and receiving electronic mail documents by performing the steps of:

(A)—creating, by the computer system, a shadow document from an original electronic mail message document, wherein the original document is an electronic mail message within a conversation thread of electronic mail messages, parsing the original electronic mail messagedocument for selected logistical data ~~comprising any of sender, receiver, original size, subject, or carbon copies~~ of the original electronic mail messagedocument, and storing the logistical data in the shadow document;

(B)—identifying, by the computer system, within the conversation thread of electronic mail messages, a parent electronic mail messagedocument and a child electronic mail messagedocument of the original electronic mail messagedocument, wherein the original electronic mail messagedocument is a reply to the parent electronic mail messagedocument of the

~~original document~~ and wherein the child electronic mail message~~document of the original document~~ is a reply to the original electronic mail message~~document~~; and

- storing, by the computer system, references to the parent electronic mail message and the child electronic mail message thereto in the shadow document; and

(C) ~~storing the shadow document in a computer usable memory, determining and~~  
visually rendering, by the computer system, a complete tree representing the conversation thread of electronic mail messages responsive at least in part to the shadow document, wherein the visual rendering of the complete tree representing the conversation thread of electronic mail messages graphically represent~~ing~~s the original electronic mail message~~document~~ as a child of the identified parent electronic mail message~~document~~ and as a parent of the identified child electronic mail message~~document~~;

detecting, by the computer system, deletion and wherein after deleting of the original electronic mail message; and

modifying, by the computer system, document~~the visual rendering of the complete tree representing the conversation thread of electronic mail messages in response to detecting the deletion of the original electronic mail message to include is preserved except with a modified graphical representation of the original electronic mail message~~~~document, wherein the modified graphical representation of the original electronic mail message~~~~document~~ within the visual rendering of the complete tree representing the conversation thread of electronic mail messages after deleting of the original electronic mail message~~document~~ visually indicating~~indicates~~ that the original electronic mail message~~document~~ has been deleted.

22. (Currently Amended) The system of claim 21 wherein ~~(A) the creating of the shadow document~~ further comprises:

(A1)—filtering the original electronic mail messagedocument for selected content.

23. (Currently Amended) The system of claim 21 wherein the shadow document further comprises selected data from the content of the original electronic mail messagedocument.

24. (Currently amended) At least one computer system coupled to a network and including a computer readable memory having program code stored thereon for executing a communication process for sending and receiving electronic mail documents by performing the steps of:

(A)—creating, by the computer system, a shadow document from an original ~~document~~, wherein the original document is an electronic mail message within a conversation thread of electronic mail messages;

(B)—identifying, by the computer system, within the conversation thread of electronic mail messages, a parent electronic mail messagedocument and a child electronic mail messagedocument of the original electronic mail messagedocument, wherein the original electronic mail messagedocument is a reply to the parent electronic mail messagedocument of the original document and wherein the child electronic mail messagedocument of the original document is a reply to the original electronic mail messagedocument; and  
\_\_\_\_\_ storing, by the computer system, references to the parent electronic mail message and the child electronic mail message thereto in the shadow document;

(C)—storing the shadow document in a computer usable memory, determining and



\_\_\_\_\_visually rendering, by the computer system, a complete tree representing the conversation thread of electronic mail messages responsive at least in part to the shadow document, wherein the visual rendering of the complete tree representing the conversation thread of electronic mail messages graphically represents the original electronic mail messagedocument as a child of the identified parent electronic mail messagedocument and as a parent of the identified child electronic mail messagedocument;

\_\_\_\_\_detecting, by the computer system, deletion-and wherein after deleting of the original electronic mail message;

\_\_\_\_\_modifying, by the computer system, ~~document~~the visual rendering of the complete tree representing the conversation thread of electronic mail messages in response to detecting the deletion of the original electronic mail message to include is preserved except with a modified graphical representation of the original electronic mail messagedocument, wherein the modified graphical representation of the original electronic mail messagedocument within the visual rendering of the complete tree representing the conversation thread of electronic mail messages after deleting of the original document visually indicates that the original electronic mail messagedocument has been deleted; and

wherein the shadow document further comprises references to original content and original attachments of the original electronic mail message.

25. (Currently Amended) The system of claim 21 further comprising:

wherein the tree representing the conversation thread of electronic mail messages presents graphical representations of a plurality of electronic mail messagesdocuments in a manner which indicates relationships among the electronic mail messagesdocuments.

26. (Currently Amended) The system of claim 25 wherein at least one of the plurality of presented electronic mail messages~~documents~~ is the original electronic mail message~~document~~.

27. (Currently Amended) The system of claim 25 wherein at least one of the plurality of presented electronic mail messages~~documents~~ is the shadow document.

28. (Currently Amended) The system of claim 21 said steps of performing said sending and receiving electronic mail documents further comprising:

(E)—resolving the references in the shadow document to the parent electronic mail message~~document~~ and the child electronic mail message~~document~~; and

(F)—maintaining in memory data identifying a plurality of shadow documents and any parent and child electronic mail messages~~documents~~ thereof.

29. (Cancelled)

30. (Currently amended) A computer program product including a computer readable memory having program code stored thereon for executing a communication process for sending and receiving electronic mail documents by performing the steps of:

(A)—creating a shadow document from an original electronic mail message ~~document~~, wherein the original document is an electronic mail message within a conversation thread of electronic mail messages, parsing the original electronic mail message~~document~~ for selected logistical data ~~comprising any of sender, receiver, original size, subject, or carbon copies~~ of the

original electronic mail messagedocument, and storing the logistical data in the shadow document;

(B)—identifying, within the conversation thread of electronic mail messages, a parent electronic mail messagedocument and a child electronic mail messagedocument of the original electronic mail messagedocument, wherein the original electronic mail messagedocument is a reply to the parent electronic mail messagedocument of the original document and wherein the child electronic mail messagedocument of the original document is a reply to the original electronic mail messagedocument; and

\_\_\_\_\_storing references to the parent electronic mail message and the child electronic mail message thereto in the shadow document; and

(C)—storing the shadow document in a computer usable memory, determining and \_\_\_\_\_visually rendering a complete tree representing the conversation thread of electronic mail messages responsive at least in part to the shadow document, wherein the visual rendering of the complete tree representing the conversation thread of electronic mail messages graphically representings the original electronic mail messagedocument as a child of the identified parent electronic mail messagedocument and as a parent of the identified child electronic mail messagedocument; and

\_\_\_\_\_detecting deletion of ~~wherein after deleting of the original~~ electronic mail message;document

\_\_\_\_\_modifying the visual rendering of the complete tree representing the conversation thread of electronic mail messages in response to detecting the deletion of the original electronic mail message to include is preserved except with a modified graphical representation of the original electronic mail messagedocument, wherein the modified graphical representation of the original

electronic mail messagedocument within the visual rendering of the complete tree representing the conversation thread of electronic mail messages ~~after deleting of the original document~~ visually indicatinges that the original electronic mail messagedocument has been deleted.

31. (Currently Amended) The computer program product of claim 30 wherein the creating of the shadow document~~(A)~~ further comprises:

(A1)—filtering the original electronic mail messagedocument for selected content.

32. (Currently Amended) The computer program product of claim 30 wherein the shadow document further comprises selected data from the content of the original electronic mail messagedocument.

33. (Currently amended) A computer program product including a computer readable memory having program code stored thereon for executing a communication process for sending and receiving electronic mail documents by performing the steps of:

(A)—creating a shadow document from an original ~~document, wherein the original document is an~~ electronic mail message within a conversation thread of electronic mail messages;

(B)—identifying, within the conversation thread of electronic mail messages, a parent electronic mail messagedocument and a child electronic mail messagedocument of the original document, wherein the original electronic mail messagedocument is a reply to the parent electronic mail messagedocument of the original document and ~~wherein the child~~ electronic mail

~~message~~~~document of the original document~~ is a reply to the original electronic mail

~~message~~~~document~~; and

\_\_\_\_\_storing references ~~thereto~~ to the parent electronic mail message and the child electronic mail message in the shadow document;

(C) ~~storing the shadow document in a computer usable memory, determining and~~  
visually rendering a complete tree representing the conversation thread of electronic mail  
messages responsive at least in part to the shadow document, wherein the visual rendering of the  
complete tree representing the conversation thread of electronic mail messages graphically  
represents the original electronic mail message~~document~~ as a child of the identified parent  
electronic mail message~~document~~ and as a parent of the identified child electronic mail  
message~~document~~;

\_\_\_\_\_ ~~detecting deletion, and wherein after deleting~~ of the original electronic mail  
message~~document~~;

\_\_\_\_\_ modifying the visual rendering of the complete tree representing the conversation thread  
of electronic mail messages in response to detecting the deletion of the original electronic mail  
message to include ~~is preserved except with~~ a modified graphical representation of the original  
electronic mail message~~document~~, ~~wherein~~ the modified graphical representation of the original  
electronic mail message~~document~~ within the visual rendering of the complete tree representing  
the conversation thread of electronic mail messages ~~after deleting of the original document~~  
visually indicatinging that the original document has been deleted; and

wherein the shadow document further comprises references to original content and  
original attachments of the original electronic mail message.

34. (Currently Amended) The computer program product of claim 30 further comprising:

wherein the tree representing the conversation thread of electronic mail messages presents graphical representations of a plurality of electronic mail messages~~documents~~ in a manner which indicates relationships among the electronic mail messages~~documents~~.

35. (Currently Amended) The computer program product of claim 34 wherein at least one of the plurality of presented electronic mail messages~~documents~~ is the original electronic mail  
messaged~~document~~.

36. (Currently Amended) The computer program product of claim 34 wherein at least one of the plurality of presented electronic mail messages~~documents~~ is the shadow document.

37. (Canceled)

38. (Cancelled)